

DAMAGE: DISASTER MANAGEMENT AND ENVIRONMENTAL IMPACT

MASTER OF SCIENCE

ACCREDITATION

Master accredited by the French Ministry of Higher Education and Research

KEY WORDS

Disaster Management, Environment, Impact Assessment, Emergency Medicine, Project Management, Human and Social Sciences, Information and Communication Technologies

SCHOOL PROPOSING THE MASTER

Mines Alès and Université de Nîmes

LOCATION

Two semesters will be held on the main campus of Mines Alès and at Université de Nîmes, in the Occitanie French southern Region. The Occitanie Region is known worldwide for its businesses and research clusters in aeronautical and space sectors in Toulouse (with headquarters of Airbus), Montpellier (the oldest Medical School in the world), Nîmes (famous for its cultural heritage).

STRONG POINTS OF THE SCHOOL/PROGRAM

- > Mines Alès is managed by the French Ministry of Industry
- > Université de Nîmes is accredited by the French Ministry of higher Education and research
- > Study in Alès and Nîmes, in the south east region of France,
- > International Faculty
- > Masters taught in English and in small groups
- > A 6-month master thesis in industry or in a research lab
- > Intercultural seminars
- > Free French language courses
- > A MSc program boosted by reputed research departments
- > An international team for international students
- > A quality-chartered "Welcome to International Students" package

COMPETENCE ACQUIRED

Knowledge in basic engineering and environmental science engineering with a particular attention for research applied to industry, economy and society.

Crisis management, coordination action and joint response planning by civil protection agencies and humanitarian operations.

LANGUAGE OF TEACHING

English

COURSE AIMS

The Master of Science DAMAGE serves as an interface between two fields of applications: disaster management and environmental impact assessment. This multidisciplinary approach will allow students to strengthen their knowledge base by integrating an international dimension on large-scale crises. The proposed courses will allow students to assess the risks (risk analysis methods), propose solutions for risk reduction and preparedness planning. At the end of the two academic years, students should be able to critically analyze the

- > different types of risks and their potential consequences.
 - > technical, human and organizational vulnerabilities
 - > human perception that influences the risk assessment
- They will be able to offer and professionally analyze the management and coordination in the event of human or environmental catastrophe.

PROGRAM

The organization of the teaching modules includes up to 120 ECTS credits over two academic years detailed as follows:

- > M1 year: UE1 - UE6
 - > M2 year: EU7 - EU10.
- A Master internship (6 months) represents 30 credits.

UE 1: Risk assessment methods

- > Principles and key concepts of Disaster management (risk reduction, response, mitigation, post catastrophe phase), risk (hazard, vulnerability and resilience)
- > Principles of consequence evaluation (natural hazards, environmental pollutions, technological risks, health)
- > Principles in vulnerability assessment and Geospatial analysis
- > Case study

UE2: Humanitarian emergencies

- > Principles in humanitarian emergencies
- > Principles in interdisciplinary aspects of Emergency in humanitarian disasters
- > Cultural, social and psychological aspects in Humanitarian Disasters
- > Humanitarian assistance : From theory to practice
- > Case study

UE3: Human and social sciences

- > Resilience of population in disaster situations
- > Theories and applied knowledge in psychosociology
- > Environmental psychology (relations between Human-Environment and stress)
- > Case study

UE4: Communication 1

- > Communication and team management
- > Foreign language course and European Culture

UE5: Emergency Medicine

- > Emergency medicine and public health (legal and ethical aspects)
- > Modeling medical disaster management
- > Principles of emergency medicine - Exercises & Drills

UE6: Information and communication technologies

- > Theories on Risk Communication
- > Communication strategies (public health communication)
- > Media training and drills
- > Case study

UE7: Telecommunications and organization

- > Heterogeneous organizations modeling
- > Innovative systems for telecommunications
- > Emergency communication systems

UE8: Communication 2

- > Communication, team management and leadership
- > Foreign language course and European Culture

UE9: Project management

- > Planning and scheduling
- > Organization, Management
- > Computational applications

UE10: Internship (6months- 30ECTS)

- > Case study

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ADMISSION REQUIREMENTS

Applicants must hold a 4-year Bachelor of Science degree in the field of engineering (environmental sciences, logistics, and management) or sciences (chemistry, mechanics). Applicants with a first experience in industry are also eligible.

LANGUAGE REQUIREMENTS

English

- > Mother tongue or
- > Bachelor degree taught in English or
- > English test such as
 - TOEFL IBT 80,
 - IELTS 6.0,
 - TOEIC 750,
 - Cambridge CAE.

No prerequisite in French

APPLYING

All applications should be completed on-line:

<https://msc.mines-telecom.asia>

Information can be requested at:

admission-damage@mines-ales.fr

Applications are open from January to June every year.

FEES AND POSSIBLE SOURCES OF FUNDING (FEES VALID FOR 2017 ENTRY)

Standard fees for 24 months are:

- > € 15,000 for non EU+student
- > € 10,000 for EU+students (member states of the European Union + Iceland, Lichtenstein, Macedonia, Norway and Turkey)

Grants as Partial fee waivers may be awarded depending on the quality of students files.

Some costs may be funded by certain French embassies or within the framework of agreements between certain international institutions.

Compulsory basic medical insurance is about € 215/year (covering 70% of medical treatment). An additional healthcare cover is strongly recommended for a remaining 30% (€ 200/year approx.)

HIGHLIGHTS

- > A 6-month MSc thesis in industry or in a public research lab.
- > A quality charter to welcome international students to Mines Alès international campus.
- > Masters taught entirely in English and in small groups.
- > Free French language courses.

CALENDAR

One intake per year (mid-September).

Year 1: Two academic semesters at Mines Alès.

Year 2: One academic semester at Mines Alès + a 6-month MSc thesis, in France or abroad.

LODGING

Individual furnished studio apartments are available for international students during their stay. The residences are on the school campus and offer comfort and facilities to the students. Living expenses are quite low in Alès compared to other locations in France. Accommodation at the students Residence costs about € 330 per month. The total living expenses should not exceed € 7,000 per year (on campus food and accommodation).

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